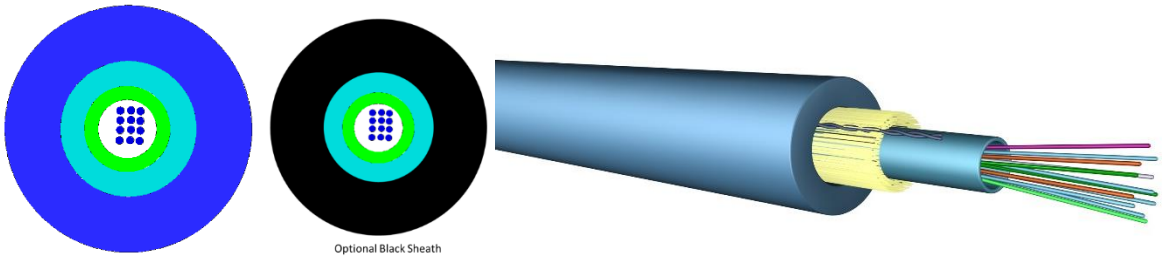
E14a: UC$^{FIBRE™}$ Universal Central Tube Cable

2000N central tube cable with 2-24 fibres, glass elements and FireBur® sheath, VDE U-DQ(ZN)BH



Eca
CPR

Application and installation

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections.

With its FireBur® LSHF sheathing this cable is ideal for mixed indoor and outdoor installation.
It is equally suited for installation in ducts and on trays. It has a degree of rodent protection.

Standards

ISO 11801-1, EN 50173-1:2011, IEC 60794-1, EN 50575

Flame Resistance

LSHF (LSOH): IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, Class E_{ca}

Construction

Loose tube	Ø2.8 mm gel-filled loose tube with 2 – 24 fibres			
Fibre colour code	1	Red	13	Red w/mark every 70mm
	2	Green	14	Green w/mark every 70mm
	3	Blue	15	Blue w/mark every 70mm
	4	Yellow	16	Yellow w/mark every 70mm
	5	White	17	White w/mark every 70mm
	6	Grey	18	Grey w/mark every 70mm
	7	Brown	19	Brown w/mark every 70mm
	8	Violet	20	Violet w/mark every 70mm
	9	Turquoise	21	Turquoise w/mark every 70mm
	10	Black	22	White w/mark every 35mm
	11	Orange	23	Orange w/mark every 70mm
	12	Pink	24	Pink w/mark every 70mm
Strength member	Water-blocked E-Glass fibre elements			
Sheath	1.0 mm Blue (Black optional) FireBur® sheath, UV stabilised, IEC 50290-2-27			
Sheath marking	Draka UCFIBRE I/O CT LSHF 2.0 kN <Fibre count> <Fibre type><Fibre brand><Item No><Factory code><Batch Number><Meter mark> U-DQ(ZN)BH <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class>			

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Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits
Nominal outer diameter	-	2 - 24 fibres: 5.8 mm
Nominal weight	-	2 - 24 fibres: 40 kg/km
Maximum installation tensile strength	E1	2000 N (fibre strain ≤ 0.6%)
Permanent tensile strength	E1	750 N (fibre strain ≤ 0.2%)
Compressive strength (crush)	E3	2000 N / 100 mm
Impact	E4	15 Nm (no attenuation change, no broken cable elements)
Torsion	E7	5 cycles ± 1 turn
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
Min. bending radius, unloaded (permanent)	E11	R = 58 mm
Min. bending radius, loaded (installation)	-	R = 116 mm
Temperature range	F1	Storage: -40°C to +60°C Installation: -30°C to +40°C Operation: -30°C to +60°C.
Water penetration	F5B	No water on free end
Heat of combustion	-	2-24 fibres: 630 MJ/km = 0.18 kWh/m

Product Codes

Product Code	DoP Number*	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60043938	1002435	UC^{FIBRE} I/O CT LSHF 2.0 kN 2 OM2B	2	MaxCap-BB-OM2	C34
60018814	1002406	UC^{FIBRE} I/O CT LSHF 2.0 kN 4 OM2B	4	MaxCap-BB-OM2	C34
60018815	1002407	UC^{FIBRE} I/O CT LSHF 2.0 kN 6 OM2B	6	MaxCap-BB-OM2	C34
60018780	1002401	UC^{FIBRE} I/O CT LSHF 2.0 kN 8 OM2B	8	MaxCap-BB-OM2	C34
60011400	1002397	UC^{FIBRE} I/O CT LSHF 2.0 kN 12 OM2B	12	MaxCap-BB-OM2	C34
60073246	1008123	UC^{FIBRE} I/O CT LSHF 2.0 kN 24 OM2B	24	MaxCap-BB-OM2	C34
60019958	1002415	DR I/O CT LSHF 2.0 kN 4 OM2B BK	4	MaxCap-BB-OM2	C34
60019959	1007110	DR I/O CT LSHF 2.0 kN 8 OM2B BK	8	MaxCap-BB-OM2	C34
60029781	1002397	DR I/O CT LSHF 2.0 kN 12 OM2B BK	12	MaxCap-BB-OM2	C34
60073317	1008126	DR I/O CT LSHF 2.0 kN 24 OM2B BK	24	MaxCap-BB-OM2	C34
60018863		UC^{FIBRE} I/O CT LSHF 2.0 kN 4 OM3B	4	MaxCap-BB-OM3	C31
60011320		UC^{FIBRE} I/O CT LSHF 2.0 kN 6 OM3B	6	MaxCap-BB-OM3	C31
60018784	1002402	UC^{FIBRE} I/O CT LSHF 2.0 kN 8 OM3B	8	MaxCap-BB-OM3	C31
60018785	1002403	UC^{FIBRE} I/O CT LSHF 2.0 kN 12 OM3B	12	MaxCap-BB-OM3	C31
60019389		UC^{FIBRE} I/O CT LSHF 2.0 kN 16 OM3B	16	MaxCap-BB-OM3	C31
60073248	1008125	UC^{FIBRE} I/O CT LSHF 2.0 kN 24 OM3B	24	MaxCap-BB-OM3	C31
60019960	1002416	DR I/O CT LSHF 2.0 kN 4 OM3B BK	4	MaxCap-BB-OM3	C31
60019961	1004779	DR I/O CT LSHF 2.0 kN 8 OM3B BK	8	MaxCap-BB-OM3	C31
60019962	1002418	DR I/O CT LSHF 2.0 kN 12 OM3B BK	12	MaxCap-BB-OM3	C31
60073155	1008272	DR I/O CT LSHF 2.0 kN 24 OM3B BK	24	MaxCap-BB-OM3	C31
60019938	1002414	UC^{FIBRE} I/O CT LSHF 2.0 kN 4 OM4B	4	MaxCap-BB-OM4	C32
60020010	1002420	UC^{FIBRE} I/O CT LSHF 2.0 kN 6 OM4B	6	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O CT LSHF 2.0 kN 8 OM4B	8	MaxCap-BB-OM4	C32
60019481	1002411	UC^{FIBRE} I/O CT LSHF 2.0 kN 12 OM4B	12	MaxCap-BB-OM4	C32
60073244	1008122	UC^{FIBRE} I/O CT LSHF 2.0 kN 24 OM4B	24	MaxCap-BB-OM4	C32

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60032535	1002428	DR I/O CT LSHF 2.0 kN 4 OM4B BK	4	MaxCap-BB-OM4	C32
60020747	1002422	DR I/O CT LSHF 2.0 kN 8 OM4B BK	8	MaxCap-BB-OM4	C32
60029958	1005428	DR I/O CT LSHF 2.0 kN 12 OM4B BK	12	MaxCap-BB-OM4	C32
60032388	1004361	DR I/O CT LSHF 2.0 kN 16 OM4B BK	16	MaxCap-BB-OM4	C32
60073165	1008170	DR I/O CT LSHF 2.0 kN 24 OM4B BK	24	MaxCap-BB-OM4	C32
		UC^{FIBRE} I/O CT LSHF 2.0 kN 4 OM5B	4	WideCap-OM5	C39
		UC^{FIBRE} I/O CT LSHF 2.0 kN 8 OM5B	8	WideCap-OM5	C39
		UC^{FIBRE} I/O CT LSHF 2.0 kN 12 OM5B	12	WideCap-OM5	C39
		UC^{FIBRE} I/O CT LSHF 2.0 kN 16 OM5B	16	WideCap-OM5	C39
		UC^{FIBRE} I/O CT LSHF 2.0 kN 24 OM5B	24	WideCap-OM5	C39
60019305		UC^{FIBRE} I/O CT LSHF 2.0 kN 2 SM2D/A1	2	OS2 BendBright G.657.A1	C17
60011327	1004732	UC^{FIBRE} I/O CT LSHF 2.0 kN 4 SM2D/A1	4	OS2 BendBright G.657.A1	C17
60011330	1002394	UC^{FIBRE} I/O CT LSHF 2.0 kN 6 SM2D/A1	6	OS2 BendBright G.657.A1	C17
60011304	1002390	UC^{FIBRE} I/O CT LSHF 2.0 kN 8 SM2D/A1	8	OS2 BendBright G.657.A1	C17
60024865	1004785	UC^{FIBRE} I/O CT LSHF 2.0 kN 12 SM2D/A1	12	OS2 BendBright G.657.A1	C17
60011335	1002398	UC^{FIBRE} I/O CT LSHF 2.0 kN 16 SM2D/A1	16	OS2 BendBright G.657.A1	C17
60073062		UC^{FIBRE} I/O CT LSHF 2.0 kN 24 SM2D/A1	24	OS2 BendBright G.657.A1	C17
60058208	1004812	DR I/O CT LSHF 2.0 kN 2 SM2D/A1 BK	2	OS2 BendBright G.657.A1	C17
60027528	1002425	DR I/O CT LSHF 2.0 kN 4 SM2D/A1 BK	4	OS2 BendBright G.657.A1	C17
60026545	1002424	DR I/O CT LSHF 2.0 kN 8 SM2D/A1 BK	8	OS2 BendBright G.657.A1	C17
60011334	1002434	DR I/O CT LSHF 2.0 kN 12 SM2D/A1 BK	12	OS2 BendBright G.657.A1	C17
60028301	1003030	DR I/O CT LSHF 2.0 kN 16 SM2D/A1 BK	16	OS2 BendBright G.657.A1	C17
60073166	1008171	DR I/O CT LSHF 2.0 kN 24 SM2D/A1 BK	24	OS2 BendBright G.657.A1	C17
60019522	1004769	UC^{FIBRE} I/O CT LSHF 2.0 kN 4 SM7B	4	BendBright^{XS} G.657.A2	C24
60020265		UC^{FIBRE} I/O CT LSHF 2.0 kN 6 SM7B	6	BendBright^{XS} G.657.A2	C24
60060409	1004830	UC^{FIBRE} I/O CT LSHF 2.0 kN 12 SM7B	12	BendBright^{XS} G.657.A2	C24
60073264		UC^{FIBRE} I/O CT LSHF 2.0 kN 24 SM7B	24	BendBright^{XS} G.657.A2	C24
60020751	1006265	UC^{FIBRE} I/O CT LSHF 2.0 kN 16 SM2D/A1/OM3B	16	Hybrid 8 OS2 G.657.A1 + 8 MaxCap-BB-OM3	C17/ C31
60076923	1008811	UC^{FIBRE} I/O CT LSHF 2.0 kN 16 SM2D/A1/OM4B	24	Hybrid 8 OS2 G.657.A1 + 8 MaxCap-BB-OM4	C17/ C31

**DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: www.prysmiangroup.com/cpr*

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